

Title (en)
DETERMINING CAUSAL MODELS FOR CONTROLLING ENVIRONMENTS

Title (de)
BESTIMMUNG VON URSACHENMODELLEN ZUR STEUERUNG VON UMGEBUNGEN

Title (fr)
DÉTERMINATION DE MODÈLES CAUSAUX POUR COMMANDER DES ENVIRONNEMENTS

Publication
EP 3938718 A4 20230125 (EN)

Application
EP 19920446 A 20190911

Priority

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Abstract (en)
[origin: WO2020188331A1] A system and methods for multivariate learning and optimization repeatedly generate self-organized experimental units (SOEUs) based on the one or more assumptions for a randomized multivariate comparison of process decisions to be provided to users of a system. The SOEUs are injected into the system to generate quantified inferences about the process decisions. Responsive to injecting the SOEUs, at least one confidence interval is identified within the quantified inferences, and the SOEUs are iteratively modified based on the at least one confidence interval to identify at least one causal interaction of the process decisions within the system. The causal interaction can be used for testing, diagnosis, and optimization of the system performance.

IPC 8 full level
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CPC (source: CN EP US)
B60W 40/064 (2013.01 - US); **B60W 40/08** (2013.01 - US); **B60W 40/105** (2013.01 - US); **G05B 13/021** (2013.01 - CN US); **G05B 13/024** (2013.01 - US); **G05B 13/0265** (2013.01 - EP US); **G05B 13/041** (2013.01 - US); **G05B 13/042** (2013.01 - US); **G05B 19/042** (2013.01 - CN EP); **G05B 19/4065** (2013.01 - CN US); **G05B 19/41835** (2013.01 - CN US); **G05B 23/0229** (2013.01 - US); **G05B 23/024** (2013.01 - EP); **G05B 23/0248** (2013.01 - EP US); **G06F 18/2193** (2023.01 - US); **G06N 5/043** (2013.01 - US); **G06N 5/046** (2013.01 - US); **G06N 7/01** (2023.01 - EP US); **G06N 20/00** (2019.01 - CN EP); **G06Q 10/06315** (2013.01 - US); **G06Q 10/06395** (2013.01 - US); **G06Q 30/0202** (2013.01 - US); **G05B 2219/36301** (2013.01 - CN US); **G06N 3/08** (2013.01 - EP); **G06N 5/01** (2023.01 - EP); **G06Q 10/063** (2013.01 - EP); **G06Q 10/087** (2013.01 - US); **Y02P 90/80** (2015.11 - EP); **Y02P 90/82** (2015.11 - EP)

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